

EXPRESS MAIL NO.: EV 533 736 984 US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Moo-Young *et al.* Confirmation No.: 3496

Serial No.: 10/766,497 Art Unit 1743

Filed: January 27, 2004 Examiner: To be assigned

For: *Method and Apparatus for Characterizing Coal Tar in Soil* Attorney Docket No.: 060825-336-US

**PETITION TO CORRECT INVENTORSHIP UNDER 37 C.F.R. § 1.48(a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants petition to correct the inventorship of the above-identified patent application by adding the following inventor:

Xinghua Mo  
College of Engineering  
800 Lancaster Avenue  
Villanova, PA 19085

Pursuant to the requirements of 37 C.F.R. § 1.48(a), attached are the following documents:

- Statement by Xinghua Mo Under 37 C.F.R. § 1.48(a)(2);
- Declaration executed by Horace Keith Moo-Young, Derick Brown, Andrew Coleman and Xinghua Mo as required by 37 C.F.R. § 1.63; and
- Consent by Assignee to Correct Inventorship Under 37 C.F.R. § 1.48(a)(5) executed by Lehigh University with a copy of the Assignments from Electric Power Research Institute to Lehigh University and from Xinghau Mo to Lehigh University.

The Statement requests that Mr. Xinghua Mo be added as an inventor and states that Mr. Mo was omitted as an inventor without any deceptive intent on his part. The Declaration as required by 37 C.F.R. § 1.63 identifies each of the inventors, is executed by each of the

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inventors, and states that the inventors making the declaration believe that they are the joint inventors of the subject matter that is claimed and for which a patent is sought.

The Consent by Assignee states that the Assignee, Lehigh University, consents to amending the above-identified application to add Mr. Mo as an inventor. Reference is made to a recorded Assignment from the previously named inventors to Electric Power Research Institute, and copies of the Assignments from Electric Power Research Institute to Lehigh University and from Xinghau Mo to Lehigh University are attached that collectively evidence that Lehigh University owns the entire right, title, and interest in, to, and under the above-identified application. Therefore, Applicants request that this Petition be granted and that Mr. Mo be added as an inventor.

The Commissioner is authorized to charge the petition processing fee under 37 C.F.R. §1.17(i) of \$130.00 and any required fees to Morgan, Lewis & Bockius LLP's deposit account no. 50-0310 (order no. 060825-0336-US). A copy of this sheet is enclosed.

Date: June 20, 2006

Respectfully submitted,

  
David R. Owens

40,756  
(Reg. No.)

**MORGAN, LEWIS & BOCKIUS** LLP  
2 Palo Alto Square  
3000 El Camino Real, Suite 700  
Palo Alto, California 94306  
(650) 843-4000



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Moo-Young *et al.* Confirmation No.: 3496  
Serial No.: 10/766,497 Art Unit 1743  
Filed: January 27, 2004 Examiner: To be assigned  
For: *Method and Apparatus for* Attorney Docket No.: 060825-336-US  
*Characterizing Coal Tar in Soil*

**STATEMENT BY XINGHUA MO**  
**UNDER 37 C.F.R. §1.48(a)(2)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, Xinghua Mo, state that I was omitted as an inventor, without any deceptive intention on my part, in United States Patent Application No. 10/766,497 entitled "Method and Apparatus for Characterizing Coal Tar in Soil" filed on February 20, 2002. I request the Commissioner to add me as an inventor in this U.S. patent application.

Respectfully submitted,  
Date: 03/29/2006 Xinghua Mo  
Xinghua Mo  
138 Montrose Avenue, Apt. 52  
Brynmarwr, PA 19010



## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

***Method and Apparatus for Characterizing Coal Tar in Soil***

and for which a patent application:

- ☐ is attached hereto and includes amendment(s) filed on (if applicable)
- ☒ was filed in the United States on January 27, 2004 as Application No. 10/766,497 (for declaration not accompanying application) with amendment(s) filed on (if applicable)
- ☐ was filed as PCT international Application No. on and was amended under PCT Article 19 on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION				
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED	
			YES <input type="checkbox"/>	NO <input type="checkbox"/>
			YES <input type="checkbox"/>	NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

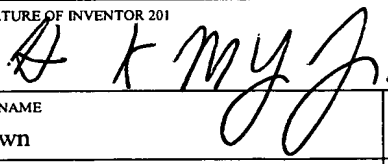
PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

NON-PROVISIONAL APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED

\* for use only when the application is assigned to a company, partnership or other organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME Moo-Young	FIRST NAME Horace	MIDDLE NAME Keith	
	RESIDENCE & CITIZENSHIP	CITY Boothwyn	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 7 Pennock Drive	CITY Boothwyn	STATE OR COUNTRY PA	ZIP CODE 19061-1433
	SIGNATURE OF INVENTOR 201 			DATE May 26, 2006	
2 0 2	FULL NAME OF INVENTOR	LAST NAME Brown	FIRST NAME Derrick	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Bethlehem	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 1916 Dartford Road	CITY Bethlehem	STATE OR COUNTRY PA	ZIP CODE 18015
	SIGNATURE OF INVENTOR 202			DATE	
2 0 3	FULL NAME OF INVENTOR	LAST NAME Coleman	FIRST NAME Andrew	MIDDLE NAME J.	
	RESIDENCE & CITIZENSHIP	CITY San Francisco	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET Parc Telegraph 220 Lombard Street, #520	CITY San Francisco	STATE OR COUNTRY CA	ZIP CODE 94111
	SIGNATURE OF INVENTOR 203			DATE	
2 0 4	FULL NAME OF INVENTOR	LAST NAME Mo	FIRST NAME Xinghua	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Villanova	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP China	
	POST OFFICE ADDRESS	138 Montrose Avenue, Apt. 52	Brynmawr	PA	19010
	SIGNATURE OF INVENTOR 204			DATE	
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 205			DATE	



## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

*Method and Apparatus for Characterizing Coal Tar in Soil*

and for which a patent application:

- ☐ is attached hereto and includes amendment(s) filed on (if applicable)
- ☒ was filed in the United States on January 27, 2004 as Application No. 10/766,497 (for declaration not accompanying application) with amendment(s) filed on (if applicable)
- ☐ was filed as PCT international Application No. on and was amended under PCT Article 19 on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION				
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED	
			YES <input type="checkbox"/>	NO <input type="checkbox"/>
			YES <input type="checkbox"/>	NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.


PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME Moo-Young	FIRST NAME Horace	MIDDLE NAME Keith	
	RESIDENCE & CITIZENSHIP	CITY Breinigsville	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 7955 Cross Creek Circle	CITY Breinigsville	STATE OR COUNTRY PA	ZIP CODE 18031
	SIGNATURE OF INVENTOR 201			DATE	
2 0 2	FULL NAME OF INVENTOR	LAST NAME Brown	FIRST NAME Derrick	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Bethlehem	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 1916 Dartford Road	CITY Bethlehem	STATE OR COUNTRY PA	ZIP CODE 18015
	SIGNATURE OF INVENTOR 202 			DATE 1 May 2006	
2 0 3	FULL NAME OF INVENTOR	LAST NAME Coleman	FIRST NAME Andrew	MIDDLE NAME J.	
	RESIDENCE & CITIZENSHIP	CITY San Francisco	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET Parc Telegraph 220 Lombard Street, #520	CITY San Francisco	STATE OR COUNTRY CA	ZIP CODE 94111
	SIGNATURE OF INVENTOR 203			DATE	
2 0 4	FULL NAME OF INVENTOR	LAST NAME Mo	FIRST NAME Xinghua	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Villanova	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP China	
	POST OFFICE ADDRESS	138 Montrose Avenue, Apt. 52	Brynmarw	PA	19010
	SIGNATURE OF INVENTOR 204			DATE	
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 205			DATE	



## DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\*

As a below named inventor, I hereby declare that:

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I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

*Method and Apparatus for Characterizing Coal Tar in Soil*

and for which a patent application:

- ☐ is attached hereto and includes amendment(s) filed on (if applicable)
- ☒ was filed in the United States on January 27, 2004 as Application No. 10/766,497 (for declaration not accompanying application) with amendment(s) filed on (if applicable)
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PROVISIONAL APPLICATION NUMBER	FILING DATE

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(1)



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

201	FULL NAME OF INVENTOR	LAST NAME Moo-Young	FIRST NAME Horace	MIDDLE NAME Keith
	RESIDENCE & CITIZENSHIP	CITY Boothwyn	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA
	POST OFFICE ADDRESS	STREET 7 Pennock Drive	CITY Boothwyn	STATE OR COUNTRY PA
	SIGNATURE OF INVENTOR 201		DATE	
202	FULL NAME OF INVENTOR	LAST NAME Brown	FIRST NAME Derrick	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Bethlehem	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA
	POST OFFICE ADDRESS	STREET 1916 Dartford Road	CITY Bethlehem	STATE OR COUNTRY PA
	SIGNATURE OF INVENTOR 202		DATE	
203	FULL NAME OF INVENTOR	LAST NAME Coleman	FIRST NAME Andrew	MIDDLE NAME J.
	RESIDENCE & CITIZENSHIP	CITY San Francisco	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA
	POST OFFICE ADDRESS	STREET Pare Telegraph 220 Lombard Street, #20 #216	CITY San Francisco	STATE OR COUNTRY CA
	SIGNATURE OF INVENTOR 203 <i>Andrew Coleman</i>		DATE 6/13/06	
204	FULL NAME OF INVENTOR	LAST NAME Mo	FIRST NAME Xinghua	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Villanova	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP China
	POST OFFICE ADDRESS	138 Montrose Avenue, Apt. 52	Brynawr	PA
	SIGNATURE OF INVENTOR 204		DATE	
205	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY
	SIGNATURE OF INVENTOR 205		DATE	

**DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION\***

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I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

***Method and Apparatus for Characterizing Coal Tar in Soil***

and for which a patent application:

- ☐ is attached hereto and includes amendment(s) filed on (if applicable)
- ☒ was filed in the United States on January 27, 2004 as Application No. 10/766,497 (for declaration not accompanying application) with amendment(s) filed on (if applicable)
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			YES <input type="checkbox"/>	NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

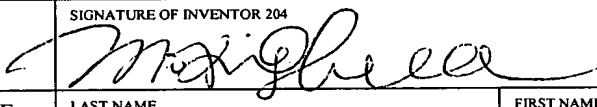
PROVISIONAL APPLICATION NUMBER	FILING DATE

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NON-PROVISIONAL APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME Moo-Young	FIRST NAME Horace	MIDDLE NAME Keith	
	RESIDENCE & CITIZENSHIP	CITY Breinigsville	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 7955 Cross Creek Circle	CITY Breinigsville	STATE OR COUNTRY PA	ZIP CODE 18031
	SIGNATURE OF INVENTOR 201			DATE	
2 0 2	FULL NAME OF INVENTOR	LAST NAME Brown	FIRST NAME Derrick	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Bethlehem	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET 1916 Dartford Road	CITY Bethlehem	STATE OR COUNTRY PA	ZIP CODE 18015
	SIGNATURE OF INVENTOR 202			DATE	
2 0 3	FULL NAME OF INVENTOR	LAST NAME Coleman	FIRST NAME Andrew	MIDDLE NAME J.	
	RESIDENCE & CITIZENSHIP	CITY San Francisco	STATE OR FOREIGN COUNTRY CA	COUNTRY OF CITIZENSHIP USA	
	POST OFFICE ADDRESS	STREET Parc Telegraph 220 Lombard Street, #520	CITY San Francisco	STATE OR COUNTRY CA	ZIP CODE 94111
	SIGNATURE OF INVENTOR 203			DATE	
2 0 4	FULL NAME OF INVENTOR	LAST NAME Mo	FIRST NAME Xinghua	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Villanova	STATE OR FOREIGN COUNTRY PA	COUNTRY OF CITIZENSHIP China	
	POST OFFICE ADDRESS	138 Montrose Avenue, Apt. 52	Brynmawr	PA	19010
	SIGNATURE OF INVENTOR 204 			DATE 03/29/2006	
2 0 5	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE
	SIGNATURE OF INVENTOR 205			DATE	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Moo-Young <i>et al.</i>	Confirmation No.:	3496
Serial No.:	10/766,497	Art Unit	1743
Filed:	January 27, 2004	Examiner:	To be assigned
For:	<i>Method and Apparatus for Characterizing Coal Tar in Soil</i>	Attorney Docket No.:	060825-336-US

**CONSENT BY ASSIGNEE TO CORRECT INVENTORSHIP**  
**UNDER 37 C.F.R. § 1.48(a)(5)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Lehigh University, located at 23B-526 Brodhead Avenue, Bethlehem, PA 18015, who is owner of the entire right, title, and interest in, to, and under the invention entitled "*Method and Apparatus for Characterizing Coal Tar in Soil*," described in U.S. Patent Application No. 10/766,497 and filed on January 27, 2004, hereby consents to amending U.S. Patent Application No. 10/766,497 to add Xinghua Mo as an inventor, thereby naming HORACE KEITH MOO-YOUNG, DERRICK BROWN, ANDREW J. COLEMAN and XINGHUA MO as the inventors.

Lehigh University certifies that it is the assignee of the entire right, title, and interest in, to, and under U.S. Patent Application No. 10/766, 497 pursuant to the Assignment executed by HORACE KEITH MOO-YOUNG, DERRICK BROWN and ANDREW J. COLEMAN to Electric Power Research Institute, Inc. (recorded at reel/frame 015757/0798), the Assignment from Electric Power Research Institute, Inc. to Lehigh University and the Assignment from Xinghua Mo to Lehigh University. A copy of each of the latter two Assignments is attached hereto.

I hereby declare that I am authorized to act on behalf of Lehigh University in this matter and that the statements made herein of my own knowledge are true and that the statements made on information and belief are believed to be true and that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

ASSIGNEE: LEHIGH UNIVERSITY

Date: 4/25/06

Signature: 

Typed Name: David B. Williams

Position/Title: Vice Provost for Research

Address: 23b-526 Brodhead Avenue  
Bethlehem, PA 18015

ASSIGNMENT

WHEREAS, Electric Power Research Institute Inc., having a place of business at 3412 Hillview Avenue, Palo Alto, California 94304, ASSIGNOR of the invention *Method and Apparatus for Characterizing Coal Tar in Soil* and for which an application for a Patent of the United States

☒ was executed on July 22, 2004 ☐ even date herewith or

☒ is identified by Morgan, Lewis & Bockius LLP Docket No. 060825-0336-US.

☒ was filed on January 27, 2004, Application No. 10/766,497.

☐ I hereby authorize and request my attorney, \_\_\_\_\_, of Morgan, Lewis & Bockius LLP, to insert here in parentheses (Application No., \_\_\_\_\_ filed \_\_\_\_\_) the filing date and application number of said application when known.

and WHEREAS, Lehigh University, ASSIGNEE, having a place of business at 23B-526 Brodhead Avenue, Bethlehem, PA 18015, is desirous of obtaining my entire right, title and interest in, to and under said invention and said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under said invention, and said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States that may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs that may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs that may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13<sup>th</sup> day of January 2006.

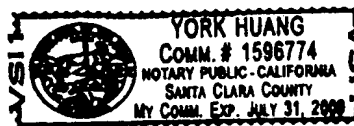
\_\_\_\_\_  
Electric Power Research Institute, Inc.  
Salvador A. Casente, Jr.  
Associate General Counsel

State of California }  
County of Santa Clara } SS.:

On January 16, 2006, before me, York Huang, Notary Public, personally appeared Salvador A. Casente, Jr., who is authorized to act on behalf of on behalf of Electric Power Research Institute, Inc., personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

York Huang



SOLE

## ASSIGNMENT

WHEREAS, I, Xinghua Mo, ASSIGNOR, a citizen of China, residing at 138 Montrose Avenue, Apt. 52, Brynmawr, PA 19010, am one of the inventors of the invention **METHOD AND APPARATUS FOR CHARACTERIZING COAL TAR IN SOIL** and for which an application for a Patent of the United States

- ☐ was executed on \_\_\_\_\_ ☐ even date herewith or
- ☒ is identified by Morgan, Lewis & Bockius LLP Docket No. 060825-0336-US
- ☒ was filed on January 27, 2004, Application No. 10/766,497
- ☐ I hereby authorize and request my attorney, \_\_\_\_\_, of Morgan, Lewis & Bockius LLP, to insert here in parentheses (Application No., \_\_\_\_\_ filed \_\_\_\_\_) the filing date and application number of said application when known.

and WHEREAS, LEHIGH UNIVERSITY, having a place of business at 23B-526 Brodhead Avenue, Bethlehem, PA 18015, is desirous of obtaining my entire right, title and interest in, to and under said invention and said application:

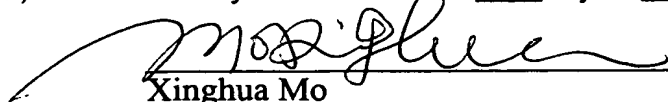
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under said invention, and said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States that may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs that may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs that may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

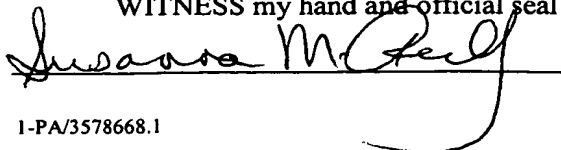
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 29<sup>th</sup> day of March, 2006.

 L.S.  
Xinghua Mo

State of Pennsylvania  
County of Delaware } SS.:

On March 29, 2006, before me, Susanna M. Reilly Notary Public, personally appeared Xinghua Mo, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal



COMMONWEALTH OF PENNSYLVANIA

Notarial Seal  
Susanna M. Reilly, Notary Public  
Radnor Twp., Delaware County  
My Commission Expires May 10, 2009  
Member, Pennsylvania Association of Notaries

Last updated 03/06

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Moo-Young *et al.* Confirmation No.: 3496  
Serial No.: 10/766,497 Art Unit 1743  
Filed: January 27, 2004 Examiner: To be assigned  
For: *Method and Apparatus for  
Characterizing Coal Tar in Soil* Attorney Docket No.: 060825-336-US

COMMUNICATION

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants enclose herewith a Power of Attorney by Assignee and Exclusion of Inventor(s) Under 37 C.F.R. 3.71 with Statement Under 37 C.F.R. 3.73(b) executed by David B. Williams, Vice Provost for Research, on behalf of Lehigh University.

Applicants believe that no fee is required with the submission of the enclosed document. However, if it is found that a fee is necessary, please charge the required fee to Morgan, Lewis & Bockius LLP Deposit Account No. 50-0310. A copy of this sheet is enclosed for accounting purposes.

Date: June 20, 2006

Respectfully submitted,

  
David R. Owens

40,756  
(Reg. No.)

**MORGAN, LEWIS & BOCKIUS LLP** LLP  
2 Palo Alto Square  
3000 El Camino Real, Suite 700  
Palo Alto, California 94306  
(650) 843-4000





Application of: Moo-Young *et al.* Confirmation No.: 3496  
Serial No.: 10/766,497 Art Unit 1743  
Filed: January 27, 2004 Examiner: To be assigned  
For: *Method and Apparatus for* Attorney Docket No.: 060825-336-US  
*Characterizing Coal Tar in Soil*

**POWER OF ATTORNEY BY ASSIGNEE  
AND EXCLUSION OF INVENTOR(S) UNDER 37 C.F.R. 3.71  
WITH STATEMENT UNDER 37 C.F.R. 3.73(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The undersigned assignee of the entire right, title and interest in the above-identified subject application hereby appoints the registered attorneys at Morgan, Lewis & Bockius LLP associated with customer no. 24341 as its attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R. 3.71; provided that, if any one of these appointed attorneys ceases being affiliated with the law firm of Morgan, Lewis & Bockius LLP as partner, counsel, or employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Please direct all correspondence for this application to the address associated with customer no. 24341.

I am the:

- ☐ Applicant/Inventor  
☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
(Statement under 37 CFR 3.73(b) is applicable)

**Statement Under 37 C.F.R. 3.73(b)**

LEHIGH UNIVERSITY states that it is:

- ☒ the assignee of the entire right, title, and interest; or  
☐ an assignee of less than the entire right, title, and interest.  
The extent (by, percentage) of its ownership interest is %

in the patent application/patent identified above by virtue of:

- ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office on \_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Horace Keith Moo-Young, Derick Brown and Andrew Coleman To: Electric Power Research Institute, Inc.

The document was recorded in the United States Patent and Trademark Office on August 31, 2004 at Reel 015757, Frame 0798, or for which a copy thereof is attached.

2. From: Electric Power Research Institute, Inc. To: Lehigh University

The document was recorded in the United States Patent and Trademark Office on \_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office on \_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☐ Copies of assignments of other documents in the chain of title are attached.


The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date:

4/25/06

ASSIGNEE: LEHIGH UNIVERSITY

Signature:



Typed Name: David B. Williams

Position/Title: Vice Provost for Research

Address: 23B-526 Brodhead Avenue  
Bethlehem, PA 18015

ASSIGNMENT

WHEREAS, Electric Power Research Institute Inc., having a place of business at 3412 Hillview Avenue, Palo Alto, California 94304, ASSIGNOR of the invention *Method and Apparatus for Characterizing Coal Tar in Soil* and for which an application for a Patent of the United States

☒ was executed on July 22, 2004

☐ even date herewith or

☒ is identified by Morgan, Lewis & Bockius LLP Docket No. 060825-0336-US.

☒ was filed on January 27, 2004, Application No. 10/766,497.

☐ I hereby authorize and request my attorney, \_\_\_\_\_, of Morgan, Lewis & Bockius LLP, to insert here in parentheses (Application No., \_\_\_\_\_ filed \_\_\_\_\_) the filing date and application number of said application when known.

and WHEREAS, Lehigh University, ASSIGNEE, having a place of business at 23B-526 Brodhead Avenue, Bethlehem, PA 18015, is desirous of obtaining my entire right, title and interest in, to and under said invention and said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under said invention, and said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States that may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs that may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs that may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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AND I HEREBY further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 13<sup>th</sup> day of January 2006.

\_\_\_\_\_  
L.S.  
Electric Power Research Institute, Inc.  
Salvador A. Casente, Jr.  
Associate General Counsel

State of California }  
County of Santa Clara } SS.:

On January 16, 2006, before me, York Huang, Notary Public, personally appeared Salvador A. Casente, Jr., who is authorized to act on behalf of on behalf of Electric Power Research Institute, Inc., personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

York Huang

